ABSTRAK

Tanaman obat dapat digunakan sebagai alternatif pencegahan dan pengobatan penyakit ikan. Penggunaannya dapat dicampurkan dalam pakan namun harus sesuai dosisnya supaya tidak mengganggu kesehatan ikan. Kesehatan ikan dapat dievaluasi dengan pengukuran profil darah. Profil darah yang akan diteliti meliputi, hemoglobin, hematokrit, glukosa darah, dan total eritrosit. Tujuan penelitian yaitu, untuk mengetahui pengaruh penambahan ekstrak daun *Avicennia marina* pada pakan yang dilihat dari total eritrosit, kadar hemoglobin, nilai hematokrit, dan kadar glukosa darah Ikan Nila. Metode penelitian yang digunakan yaitu, Rancangan Acak Lengkap (RAL) yang terdiri dari 4 perlakuan dan 5 ulangan individu Ikan Nila. Penambahan ekstrak *Avicennia marina* pada pakan ikan (1 g/kg; 1,5 g/kg; dan 2 g/kg) memiliki nilai total eritrosit berkisar antara $0{,}995 \times 10^6$–$2{,}658 \times 10^6$ sel/mm^3, hemoglobin berkisar antara 8,3–11,6 g/dL, hematokrit berkisar antara 23,1–38,4 g/dL, dan glukosa darah berkisar antara 46–209 mg/dL. Hasil penelitian menunjukan bahwa penggunaan ekstrak daun *Avicennia marina* tidak berpengaruh nyata ($P>0{,}05$) terhadap profil darah yang diukur dari total eritrosit, nilai hemoglobin, nilai hematokrit dan kadar glukosa. Kualitas air budidaya berupa suhu dan pH mememiliki nilai yang optimum untuk budidaya Ikan Nila.

***Kata kunci**: Avicennia marina; Nila; Profil darah.*

ABSTRACT

Medicinal plants can be used as an alternative prevention and treatment of fish diseases. Its use can be mixed in the feed, but must be by the dose so as not to interfere with fish health. Fish health can be evaluated by measuring the blood profile. The blood profile to this studied includes: hemoglobin, hematocrit, blood glucose, and total erythrocytes. The purpose of this research was to determine the effect of adding *Avicennia marina* leaf extract as seen from the total erythrocytes, hemoglobin levels, hematocrit values, and blood glucose levels. The research method used was CRD consisting with 4 treatments and 5 individual replicates of tilapia. The addition of *Avicennia marina* extract to fish feed (1 g/kg; 1,5 g/kg; and 2 g/kg) had a total erythrocytes range of $0{,}995x10^6$–$2{,}658x10^6$ cell/mm^3, hemoglobin ranged from 8,3–11,6 g/dL, hematocrit ranged from 23.1–38,4 g/dL, and blood glucose ranged from 46–209 mg/dL. The results showed that addition of *Avicennia marina* leaf extract had no significant effect (P>0,05) on blood profile of fish as measured by total erythrocytes, hemoglobin, hematocrit, and glucose. Aquaculture water quality in the form of temperature and pH has the optimum value for tilapia cultivation.

***Keyword**: Avicennia marina; Tilapia; Blood profile.*